WHAT IS CLAIMED IS:

1	1. A coupling device comprising:
2	a coupling device body, having
3	a first receptacle operable for coupling with a first syringe having a first
4	volumetric size;
5	a second receptacle operable for coupling with a second syringe having a
6	second volumetric size;
7	a channel disposed between said first receptacle and said second receptacle so
8	as to allow fluid to flow from said first receptacle to said second receptacle;
9	wherein said first volumetric size is different from said second volumetric
10	size.
1	2. The coupling device as described in claim 1 wherein said first
2	receptacle is sized to accept a first barrel size and wherein said second receptacle is sized to
3	accept a second barrel size different from said first barrel size.
1	3. The coupling device as described in claim 1 wherein said channel is
2	configured so as to be substantially cylindrical with a diameter in the range of about 0.4
3	millimeters to about 0.6 millimeters.
1	4. The coupling device as described in claim 1 wherein said first
2	receptacle is operable for coupling with a 250 microliter syringe.
1	5. The coupling device as described in claim 1 wherein said second
2	receptacle is operable for coupling with a 10 microliter syringe.
1	6. The coupling device as described in claim 1 wherein said first
2	receptacle is operable for coupling with a 250 microliter syringe and wherein said second
3	receptacle is operable for coupling with a 10 microliter syringe.
1	7. The coupling device as described in claim 1 wherein said channel is
2	operable for transferring a viscous material from said first swringe to said second syringe

1		8.	The coupling device as described in claim 1 wherein said coupling
2	device body is comprised of a non-metallic material.		
1		9.	The coupling device as described in claim 9 wherein said non-metallic
2	material comp	orises P	EEK.
1		10.	The coupling device as described in claim 1 and further comprising:
2		a first	ferrule for use in coupling said first syringe with said coupling device.
1		11.	The coupling device as described in claim 1 and further comprising:
2		a seco	nd ferrule for use in coupling said second syringe with said coupling
3	device.		
1		12.	A method of coupling a first syringe and a second syringe, said method
2	comprising:		
3		provio	ling a coupling device body having a first receptacle and a second
4	receptacle and	d a char	anel disposed between the first receptacle and the second receptacle;
5		coupli	ng a first syringe to the first receptacle and a second syringe to the
6	second recept	acle, w	ith the first syringe having a volumetric size that is different from a
7	volumetric siz	ze of the	e second syringe.
1		13.	The method as described in claim 12 wherein said first receptacle is
2	sized to accep	t a first	barrel size and wherein said second receptacle is sized to accept a
3	second barrel	size di	ferent from said first barrel size.
1		14.	The method as described in claim 12 wherein said channel comprises a
2	substantially o	ylindri	cal shape with a diameter in the range of about 0.4 millimeters to about
3	0.6 millimeter	rs.	
1		15.	The method as described in claim 12 and further comprising:
2		dispos	sing a needle in said channel.

ı	10. The method as described in claim 12 wherein said coupling said first		
2	syringe to said first receptacle comprises:		
3	coupling a 250 microliter syringe to said first receptacle.		
1	17. The method as described in claim 12 wherein said coupling said		
2	second syringe to said second receptacle comprises:		
3	coupling a 10 microliter syringe to said second receptacle.		
1	18. The method as described in claim 12 and further comprising:		
2	transferring viscous material from said first syringe to said second syringe.		
1	19. The method as described in claim 18, wherein the viscous material has		
2	a viscosity in the range from about 100,000 centipoise to about 300,000 centipoise.		
1	20. The method as described in claim 12 and further comprising:		
2	utilizing a non-metallic material as said coupling device body.		
1	21. The method as described in claim 20 and further comprising: utilizing		
2	PEEK as said non-metallic material.		
1	22. The method as described in claim 12 and further comprising:		
2	disposing a first ferrule in said first receptacle, said first ferrule configured for		
3	coupling said first syringe with said first receptacle.		
1	23. The method as described in claim 12 and further comprising:		
2	disposing a second ferrule in said second receptacle, said second ferrule		
3	configured for coupling said second syringe with said second receptacle.		
1	24. The method as described in claim 12 and further comprising:		
2	disposing a first ferrule in said first receptacle, said first ferrule configured for		
3	coupling said first syringe with said first receptacle;		

4		dispos	sing a second ferrule in said second receptacle, said second ferrule
5	configured for	r coupli	ng said second syringe with said second receptacle.
1		25.	A method of mixing a LCP comprising:
2		provid	ling a first syringe having a syringe barrel;
3		depos	iting a lipid material in said syringe barrel;
4		adding	g protein material to said syringe barrel;
5 6	form said LCI	•	g said lipid material and said protein material in said syringe barrel to
1		26.	The method as described in claim 25 and further comprising:
2	barrel.	utilizi	ng a second syringe to add said protein material to said first syringe
1		27.	The method as described in claim 25 and further comprising:
2	syringe.	transfe	erring said protein material and said lipid material to said second
1		28.	The method as described in claim 25 and further comprising:
2		dispen	sing said LCP material in a plurality of holding locations.
1 2	comprise an a	29. rray of	The method as described in claim 25 and wherein the holding locations wells in a well plate.
1		30.	The method as described in claim 25 and further comprising:
2		dispen	sing said LCP material on a microwell array.
1		31.	The method as described in claim 25 and further comprising:
2		dispen	sing said LCP material in a container;
3		adding	g crystallization promoting material to said container;

4	growing a protein crystal from said LCF material and said crystalization
5	promoting material in said container.
1	32. The method as described in claim 31 and further comprising:
2	drying said crystallization promoting material prior to said dispensing said
3	LCP material in said container.
1	33. A method of transferring viscous material, said method comprising:
2	providing a first syringe barrel containing a volume of viscous material, said
3	first syringe barrel having a first volumetric size;
4	providing a coupling device;
5	coupling said first syringe barrel with said coupling device;
6 7	providing a second syringe barrel, said second syringe barrel having a second volumetric size different from said first volumetric size of said first syringe barrel;
8	coupling said second syringe barrel with said coupling device;
9 10	transferring at least a portion of said volume of viscous material from said firs syringe barrel to said second syringe barrel through said coupling device.
1	34. The method as described in claim 33 and further comprising:
2	transferring said viscous material through a channel of said coupling device.
1	35. The method as described in claim 34 and further comprising;
2	transferring said viscous material through a needle disposed in said channel.
1	36. The method as described in claim 35 and further comprising:
2	utilizing a needle having a length less than about 20 millimeters.
1	37. The method as described in claim 36 and further comprising:
2	utilizing a needle having an outside diameter of approximately 0.65
2	millimatora

1		38.	The method as in claim 33, wherein the viscous material has a
2	viscosity in th	ie range	from about 100,000 centipoise to about 300,000 centipoise.
1		39.	The method as in claim 33, wherein the viscous material comprises
2	lipidic mesop	hase ma	aterial.
1		40.	An apparatus for dispensing viscous material, said apparatus
2	comprising:		
3		a syrir	nge barrel;
4		a syrir	nge plunger disposed in said syringe barrel;
5		a need	lle having a length of less than about 20 millimeters and an outside
6	diameter in th	e range	of about 0.4 millimeters to about 0.72 millimeters;
7		a ferru	ale operable for coupling said needle with said syringe barrel during use
1		41.	The apparatus as described in claim 40 wherein said viscous material
2	comprises lip	idic me	sophase.
1 2	configured so	42.	The apparatus as described in claim 40 wherein said syringe barrel is to break when said viscous material is ejected from said needle.
1		43.	A LCP mixing kit comprising:
2		a coup	bling device for coupling a plurality of syringes in fluid communication,
3	said coupling	device	having a first receptacle and a second receptacle, wherein said first
4	receptacle has	a diffe	rent coupling size from said second receptacle;
5		a first	syringe operable for coupling with said coupling device; and
6		a seco	nd syringe operable for coupling with said coupling device.
1		44.	The LCP mixing kit as described in claim 43 and further comprising:
2		a third	syringe having a volume smaller than said first syringe.
1		15	The LCP mixing kit as described in claim 44 and further comprising:

2		a seco	nd coupling operable for coupling said first syringe with said second
3	syringe.		
1		46.	The LCP mixing kit as described in claim 43 and further comprising:
2		a repe	ating dispenser for repetitively measuring a predetermined quantity of
3	LCP.		
1		47.	The LCP mixing kit as described in claim 43 and further comprising a
2	well plate.		
1		48.	The LCP mixing kit as described in claim 43 and further comprising
2	lipid material.		
1		49.	The LCP mixing kit as described in claim 43 and further comprising a
2	buffer solution	n.	
1		50.	A method of dispensing a substance comprising LCP, said method
2	comprising:		
3		mixin	g said substance in a first syringe;
4		transfe	erring said substance from said first syringe to a second syringe, said
5	second syring	e havin	g a volume size smaller than the volume size of said first syringe;
6		utilizi	ng said second syringe to dispense said LCP.
1		51.	The method as described in claim 50 and further comprising:
2		dispen	asing said LCP in a container.
1		52.	The method as described in claim 50 and further comprising:
2		dispen	sing said LCP in a well of a well plate.
1		53.	The method as described in claim 50 and further comprising:
2		dispen	sing said LCP on a microarray.
1		54.	The method as described in claim 50 and further comprising:

dispensing said LCP in a solution for use in growing a protein crystal.